



Product Evaluation

DR702 | 1014

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: DR-702

Effective Date: October 1, 2014

Re-evaluation Date: February 2016

Product Name: Wood Edge Fiberglass Opaque Inswing and Outswing Hinged Doors, Impact Resistant

Manufacturer: Bison
1445 West Sam Houston Parkway North
Houston, TX 77043
(713) 467-6700

General Description:

System	Description	Design Pressure Rating
1	Inswing Hinged Door; X; Adjustable Inswing Sill	+85/-85 psf
2	Outswing Hinged Door; X; Standard Outswing Sill	+85/-85 psf
3	Inswing Hinged Door; X; Adjustable Inswing Sill	+62/-62 psf
4	Inswing Hinged Door; X; ADA Inswing Sill	+62/-62 psf
5	Outswing Hinged Door; X; Standard Outswing Sill	+62/-62 psf
6	Outswing Hinged Door; X; Highdam Outswing Sill	+62/-62 psf

Product Dimensions:

System	Overall Size	Panel Size	Daylight Opening Size
1	37.5"x81.5"	35.75"x79.25"	N/A
2	37.5"x80.5"	35.75"x79.25"	N/A
3-4	37.5"x97.75"	35.75"x95.25"	N/A
5-6	37.5"x96.87"	35.75"x95.25"	N/A

Hardware:

- **Hinges (Systems 1-2):** three required; secure to the door panel with four (4), No. 10 x 3/4" screws; secure to the doorjamb with three (3), No. 10 x 5/8" screws and one (1), No. 10 x 2" screw.
- **Hinges (Systems 3-6):** four required; secure to the door panel with four (4), No. 10 x 1" screws; secure to the doorjamb with three (3), No. 10 x 5/8" screws and one (1), No. 10 x 2" screw.
- **Schlage F-Series Passage Lockset (Systems 3-6):** locate on the door panel.
- **Schlage B-Series Deadbolt (Systems 3-6):** locate on the door panel.
- **Kwikset Series 400 Lockset (Systems 1-6):** locate on the door panel.
- **Kwikset Series 980 deadbolt (Systems 1-6):** locate on the door panel.
- **Strike plate – Lockset:** one required; locate on the doorjamb; secure with two (2), No. 8 x 2" screws.
- **Strike plate – Deadbolt:** one required; locate on the doorjamb; secure with two (2), No. 8 x 2" screws.

Product Identification (Certification Agency Label on Door):

System		
1-6	Manufacturer	Bison / Houston, TX
	Product Name	Fiberglass Door Unit Inswing or Outswing Config: X
	Test Standards	ASTM E 330; ASTM E 1886, ASTM E 1996, Missile Level D

Impact Resistance:

System	Impact Resistant	Requirement
1-6	Yes	These products satisfy TDI's criteria for protection from windborne debris in the Inland I and Seaward zone. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies.

Acceptance of Smaller Assemblies: TDI accepts door assemblies with dimensions equal to or smaller than those specified within the limitations of this report.

Installation:

Systems 1-2: The wood wall-framing members shall be minimum Spruce-Pine-Fir dimension lumber. Secure the door to the wall framing using the frame of the door. Fasteners shall be minimum No. 10 x 2-1/2" screws. Along the head and sill, the locate fasteners approximately 6" from each corner. Along each side jamb, space the fasteners approximately 6" from each corner and approximately 14" on center. Secure each hinge to the wall framing with one (1) No. 10 x 2" screw. Use fasteners long enough to penetrate a minimum of 1-1/2" into the wall framing. If securing the sill to concrete, then use a minimum 3/16" diameter concrete anchors long enough to penetrate a minimum of 1-1/4" into the concrete.

Systems 3-6: Use minimum Spruce-Pine-Fir dimension lumber for the wood wall-framing members. Secure the door to the wall framing using the frame of the door. Use fasteners a minimum of No. 10 x 2-1/2" screws. Along the head and sill, locate the fasteners approximately 6" from each corner. Along each side jamb, space the fasteners approximately 6" from each corner and approximately 17" on center. Secure each hinge to the wall framing with one (1), No. 10 x 2" screw. Use fasteners long enough to penetrate a minimum of 1-1/2" into the wall framing. If securing the sill to concrete, then minimum 3/16" diameter concrete anchors long enough to penetrate a minimum of 1-1/4" into the concrete.

Note: The manufacturer's installation instructions must be available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.